

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	40	HFB1 or HFBII	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:33
L2	16	(HFB1 or HFBII) and (foaming or foam)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:33
L3	8	(HFB1 or HFBII) same (foaming or foam)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:33
L4	186	hydrophobin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:33
L5	16	hydrophobin same (foam or foaming)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:33
L6	66	hydrophobin and trichoderma	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:33
L7	12	hydrophobin same fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:33
L8	31	hydrophobin and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:33
L9	27	hydrophobin same trichoderma	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:33
L10	15	hydrophobin and trichoderma and foam\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:33
L11	16	hydrophobin and trichoderma and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:34

EAST Search History

L12	456	fungal with host with production	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:34
L13	71	fungal with host with production and hydrophobic with proteins	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:34
L14	71	fungal with host with production and hydrophobic with proteins	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:34
L15	71	fungal with host with production and hydrophobic with proteins	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:34
L16	71	fungal with host with production and hydrophobic with proteins and polypeptides	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:34
L17	43	fungal with host with production and hydrophobic with protein and fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:34
L18	0	fungal with host with production and hydrophobic with protein same fermentation	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:34
L19	9437	trichoderma	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:35
L20	876	trichoderma and foam	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:35
L21	10	trichoderma same foam	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:35
L22	0	(trichoderma same foam).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:36
L23	3	trichoderma same foam and HFBI	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/09/10 15:36



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	#14 Search trichoderma reesei hfb1 gene mutation	16:03:33	<u>1</u>
	#13 Search trichoderma reesei hfb1 gene	16:03:26	<u>5</u>
	#12 Search trichoderma reesei hfb1	16:03:03	<u>5</u>
	#11 Search trichoderma reesei hfb1 mutants	16:02:51	<u>0</u>
	#10 Search trichoderma reesei gene modification	16:01:04	<u>4</u>
	#9 Search trichoderma reesei gene modifcation	16:00:54	<u>0</u>
	#8 Search trichoderma reesei cell culture	16:00:38	<u>7</u>
	#7 Search trichoderma reesei cell cuture	16:00:35	<u>0</u>
	#6 Search trichoderma reesei foam	16:00:19	<u>6</u>
	#3 Search trichoderma reesei hfbi	15:58:28	<u>21</u>
	#2 Search trichoderma reesei	15:57:59	<u>883</u>
	#1 Search trichoderma reesi	15:57:55	<u>2</u>

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AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS,
CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB,
DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 16:05:52 ON 10 SEP 2007

69 FILES IN THE FILE LIST IN STNINDEX

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=> trichoderma with reesei and hfb1

2	FILE AGRICOLA
5	FILE BIOSIS
2	FILE BIOTECHABS
2	FILE BIOTECHDS
9	FILE CAPLUS

22 FILES SEARCHED...

22	FILE DGENE
2	FILE DISSABS

38 FILES SEARCHED...

5	FILE LIFESCI
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47 FILES SEARCHED...

7	FILE USPATFULL
1	FILE USPAT2

68 FILES SEARCHED...

10 FILES HAVE ONE OR MORE ANSWERS, 69 FILES SEARCHED IN STNINDEX

L5 QUE TRICHODERMA WITH REESEI AND HFB1

=> d rank

F1	22	DGENE
F2	9	CAPLUS
F3	7	USPATFULL
F4	5	BIOSIS
F5	5	LIFESCI
F6	2	AGRICOLA
F7	2	BIOTECHABS
F8	2	BIOTECHDS
F9	2	DISSABS
F10	1	USPAT2

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L6 23 TRICHODERMA WITH REESEI AND HFB1

=> dup remove
ENTER L# LIST OR (END):16
PROCESSING COMPLETED FOR L6
L7 12 DUP REMOVE L6 (11 DUPLICATES REMOVED)

=> d ti 1-12

- L7 ANSWER 1 OF 12 DISSABS COPYRIGHT (C) 2007 ProQuest Information and Learning Company; All Rights Reserved on STN
TI Characterization of the Trichoderma reesei hyphophobins HFB1 and HFBII
- L7 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Characterization of the Trichoderma reesei hyphophobins HFB1 and HFBII
- L7 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1
TI The Trichoderma reesei hyphophobin genes hfb1 and hfb2 have diverse functions in fungal development
- L7 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Improved method for heterologous production of secreted proteins in fungi based on transcription enhancement of secreted protein genes by modified promoter
- L7 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2
TI Process technological effects of deletion and amplification of hyphophobins I and II in transformants of Trichoderma reesei
- L7 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI A method for decreasing the foam formation during cultivation of a microorganism
- L7 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 3
TI Overproduction, purification, and characterization of the Trichoderma reesei hyphophobin HFB1
- L7 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 4
TI Differential expression of the vegetative and spore-bound hyphophobins of Trichoderma reesei. Cloning and characterization of the hfb2 gene
- L7 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 5

TI Genetic and biochemical characterization of the Trichoderma reesei hydrophobin HFB1

L7 ANSWER 10 OF 12 DISSABS COPYRIGHT (C) 2007 ProQuest Information and Learning Company; All Rights Reserved on STN

TI HIGHLY EXPRESSED TRICHODERMA REESEI GENES: CLONING, CHARACTERIZATION AND USE IN PROTEIN PRODUCTION ON GLUCOSE-CONTAINING MEDIA

L7 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

TI Highly expressed Trichoderma reesei genes. Cloning, characterization and use in protein production on glucose-containing media

L7 ANSWER 12 OF 12 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

TI Highly expressed Trichoderma reesei genes: Cloning, characterization and use in protein production of glucose-containing media.

=> ab bib 12, 9, 8, 7, 6, 5, 4, , 3, 2, 1
L8 0 AB BIB 12, 9, 8, 7, 6, 5, 4, , 3, 2, 1

=> d ab bid 13, 12, 9, 8, 7, 6, 5, 4, 3, 2, 1
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L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1
AN 2007:661850 CAPLUS
DN 147:183355
TI Surface Properties of Class II Hydrophobins from Trichoderma reesei and Influence on Bubble Stability
AU Cox, Andrew R.; Cagnol, Florence; Russell, Andrew B.; Izzard, Martin J.
CS Unilever R&D Colworth, Bedfordshire, MK44 1LQ, UK
SO Langmuir (2007), 23(15), 7995-8002
CODEN: LANGD5; ISSN: 0743-7463
PB American Chemical Society
DT Journal
LA English
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> trichoderma with reesei and hfb1
L9 23 TRICHODERMA WITH REESEI AND HFB1

=> dup remove
ENTER L# LIST OR (END):19
PROCESSING COMPLETED FOR L9
L10 12 DUP REMOVE L9 (11 DUPLICATES REMOVED)

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L10 ANSWER 12 OF 12 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN
AN 1996:268160 BIOSIS
DN PREV199698824289
TI Highly expressed Trichoderma reesei genes: Cloning,

characterization and use in protein production of glucose-containing media.

AU Nakari-Setala, Tiina
CS VTT Biotechnol. and Food Res., Biologinkuja 1, P.O. Box 1503, FIN-02044
VTT, Finland
SO VTT Publications, (1995) Vol. 0, No. 254, pp. 1-94.
ISSN: 1235-0621.

DT Article
LA English
ED Entered STN: 10 Jun 1996
Last Updated on STN: 10 Jun 1996

L10 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 5
AN 1996:83228 CAPLUS
DN 124:253667
TI Genetic and biochemical characterization of the Trichoderma reesei hydrophobin HFB1
AU Nakari-Setala, Tiina; Aro, Nina; Kalkkinen, Nisse; Alatalo, Edward; Penttila, Merja
CS VTT Biotechnology and Food Res., FIN-02044, Finland
SO European Journal of Biochemistry (1996), 235(1/2), 248-55
CODEN: EJBCAI; ISSN: 0014-2956
PB Springer
DT Journal
LA English

L10 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 4
AN 1997:622375 CAPLUS
DN 127:303857
TI Differential expression of the vegetative and spore-bound hydrophobins of Trichoderma reesei. Cloning and characterization of the hfb2 gene
AU Nakari-Setala, Tiina; Aro, Nina; Ilmen, Marja; Munoz, Gaston; Kalkkinen, Nisse; Penttila, Merja
CS VTT Biotechnology and Food Research, VTT, FIN-02044, Finland
SO European Journal of Biochemistry (1997), 248(2), 415-423
CODEN: EJBCAI; ISSN: 0014-2956
PB Springer
DT Journal
LA English

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 3
AN 2001:800499 CAPLUS
DN 136:66859
TI Overproduction, purification, and characterization of the Trichoderma reesei hydrophobin HFB1
AU Askolin, S.; Nakari-Setala, T.; Tenkanen, M.
CS VTT Biotechnology, 02044, Finland
SO Applied Microbiology and Biotechnology (2001), 57(1-2), 124-130
CODEN: AMBIDG; ISSN: 0175-7598
PB Springer-Verlag
DT Journal
LA English

RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2001:152808 CAPLUS
DN 134:206662
TI A method for decreasing the foam formation during cultivation of a microorganism
IN Nakari-Setaelae, Tiina; Penttilae, Merja; Bailey, Michael; Tenkanen, Maija

PA Valtion Teknillinen Tutkimuskeskus, Finland

SO PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001014521	A1	20010301	WO 2000-FI707	20000821
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, 'CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FI	9901781	A	20010221	FI 1999-1781	19990820
FI	108863	B1	20020415		
CA	2382468	A1	20010301	CA 2000-2382468	20000821
EP	1204738	A1	20020515	EP 2000-954690	20000821
EP	1204738	B1	20060125		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP	2003507056	T	20030225	JP 2001-518837	20000821
AU	782206	B2	20050714	AU 2000-67052	20000821
AT	316570	T	20060215	AT 2000-954690	20000821
PT	1204738	T	20060531	PT 2000-954690	20000821
ES	2257310	T3	20060801	ES 2000-954690	20000821
PRAI	FI 1999-1781	A	19990820		
	WO 2000-FI707	W	20000821		

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2

AN 2002:414973 CAPLUS

DN 137:124250

TI Process technological effects of deletion and amplification of hydrophobins I and II in transformants of Trichoderma reesei

AU Bailey, M. J.; Askolin, S.; Horhammer, N.; Tenkanen, M.; Linder, M.; Penttila, M.; Nakari-Setala, T.

CS VTT Biotechnology, VTT, 02044, Finland

SO Applied Microbiology and Biotechnology (2002), 58(6), 721-727
CODEN: AMBIDG; ISSN: 0175-7598

PB Springer-Verlag

DT Journal

LA English

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:637705 CAPLUS

DN 137:180778

TI Improved method for heterologous production of secreted proteins in fungi based on transcription enhancement of secreted protein genes by modified promoter

IN Pakula, Tiina; Saloheimo, Markku; Uusitalo, Jaana; Huuskonen, Anne; Watson, Adrian; Jeenes, David; Archer, David; Penttilae, Merja

PA Valtion Teknillinen Tutkimuskeskus, Finland

SO PCT Int. Appl., 84 pp.

CODEN: PIXXD2

DT Patent.

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002064624	A2	20020822	WO 2002-FI116	20020213
	WO 2002064624	A3	20021121		
	WO 2002064624	A8	20031127		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2438356	A1	20020822	CA 2002-2438356	20020213
	AU 2002233373	A1	20020828	AU 2002-233373	20020213
	EP 1360196	A2	20031112	EP 2002-700285	20020213
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	JP 2004526440	T	20040902	JP 2002-564953	20020213
	US 2004115790	A1	20040617	US 2004-467710	20040209
PRAI	FI 2001-272	A	20010213		
	WO 2002-FI116	W	20020213		

L10 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1

AN 2005:1254134 CAPLUS

DN 144:208676

TI The Trichoderma reesei hydrophobin genes hfb1
and hfb2 have diverse functions in fungal development

AU Askolin, Sanna; Penttilae, Merja; Woesten, Han A. B.; Nakari-Setaelae, Tiina

CS VTT Biotechnology, FI-02044, Finland

SO FEMS Microbiology Letters (2005); 253(2), 281-288
CODEN: FMLED7; ISSN: 0378-1097

PB Elsevier B.V.

DT Journal

LA English

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN.

AN 2006:1232220 CAPLUS

DN 146:40624

TI Characterization of the Trichoderma reesei
hydrophobins HFB1 and HFBII

AU Askolin, Sanna

CS VTT Biotechnology, Finland

SO VTT Publications (2006), 601, 1-99
CODEN: VTTPEY; ISSN: 1235-0621

PB Valtion Teknillinen Tutkimuskeskus

DT Journal

LA English

RE.CNT 195 THERE ARE 195 CITED REFERENCES AVAILABLE FOR THIS RECORD
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AN 2007:16502 DISSABS Order Number: AAIC826188 (not available for sale by UMI)

TI Characterization of the Trichoderma reesei
hydrophobins HFB1 and HFBII

AU Askolin, Sanna Marika [D.Sc.]
CS Teknillinen Korkeakoulu (Helsinki) (Finland) (5766)
SO Dissertation Abstracts International, (2006) Vol. 67, No. 4C, p. 1084.
Order No.: AAIC826188 (not available for sale by UMI). VTT Technical
Research Centre of Finland, Tietotie 2, PO Box 1000, FI-02044 VTT,
Finland. 137 pages.
DT Dissertation
FS DAI
LA English
ED Entered STN: 20070402
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INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 15:39:39 ON 10 SEP 2007

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=> trichoderma and foam and HFBI

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1.1 ONE TRICHODERMA AND FOAM AND HFBI

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=> trichoderma and foam and HFBI

L2 12 TRICHODERMA AND FOAM AND HFBI

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L3 2 DUP REMOVE L2 (10 DUPLICATES REMOVED)

=> d ti 1-10

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1

TI Surface Properties of Class II Hydrophobins from Trichoderma
reesei and Influence on Bubble Stability

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2

TI Process technological effects of deletion and amplification of
hydrophobins I and II in transformants of Trichoderma reesei

=> ab bib 1, 2

L4 0 AB BIB 1, 2

=> d ab bib 13

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 1

AB We report the remarkable surface behavior of class II hydrophobin proteins
HFBI and HFBII from Trichoderma reesei and the resulting
effect that these proteins have on the stability of air bubbles to the
process of disproportionation. The surface properties were studied using
surface tensiometry and surface shear rheol. Surface tensiometry data
show that hydrophobins are very surface active proteins, reducing the
surface tension to approx. 30 mN m⁻¹. The rate at which the hydrophobins
adsorb at the surface may also be related to the self-assembly behavior in
aqueous solution. We further show that hydrophobins form air/water surfaces

with high elasticity, the magnitude of which is well in excess of that of

surface layers formed by other common proteins used as foam or emulsion stabilizers. The measured surface properties translate to the stability of bubbles with adsorbed hydrophobin, and in this study, we demonstrate the ability of hydrophobin to have a dramatic effect on the rate of disproportionation in some simple bubble dissoln. studies.

AN 2007:661850 CAPLUS

DN 147:183355

TI Surface Properties of Class II Hydrophobins from *Trichoderma reesei* and Influence on Bubble Stability

AU Cox, Andrew R.; Cagnol, Florence; Russell, Andrew B.; Izzard, Martin J.

CS Unilever R&D Colworth, Bedfordshire, MK44 1LQ, UK

SO Langmuir (2007), 23(15), 7995-8002

CODEN: LANGD5; ISSN: 0743-7463

PB American Chemical Society

DT Journal

LA English

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=> d ab bib 13 2

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN DUPLICATE 2

AB Transformants of the *Trichoderma reesei* strains QM9414 and Rut-C30 were constructed in which the genes for the two major hydrophobin proteins, hydrophobins I (HFB1) and II (HFBII), were deleted or amplified by mol. biol. techniques. Growth parameters and foam production of the transformant strains were compared with the corresponding properties of the parent strains by cultivation in laboratory bioreactors under conditions of catabolite repression (glucose medium) or induction of cellulolytic enzymes and other secondary metabolites (cellulose and lactose media). All the transformed strains exhibited vegetative growth properties similar to those of their parent. The Δ hfb2 (but not the Δ hfb1) transformant showed reduced tendency to foam, whereas both strains overproducing hydrophobins foamed extensively, particularly in the case of HFBII. Enzyme production on cellulose medium was unaltered in the Δ hfb2 transformant VTT D-99676, but both the Δ hfb2 and HFBII-overproducing transformants exhibited somewhat decreased enzyme production properties on lactose medium. Production of HFB1 by the multi-copy transformant VTT D-98692 was almost 3-fold that of the parent strain QM9414. Overprodn. of HFBII by the transformant VTT D-99745, obtained by transformation with three addnl. copies of the hfb2 gene under the cbh1 promoter, was over 5-fold compared to production by the parent strain Rut-C30. The Δ hfb2 transformant VTT D-99676 produced a greatly increased number of spores on lactose medium compared with the parent strain, whereas the HFBII-overproducing transformant VTT D-99745 produced fewer spores.

AN 2002:414973 CAPLUS

DN 137:124250

TI Process technological effects of deletion and amplification of hydrophobins I and II in transformants of *Trichoderma reesei*

AU Bailey, M. J.; Askolin, S.; Horhammer, N.; Tenkanen, M.; Linder, M.; Penttila, M.; Nakari-Setala, T.

CS VTT Biotechnology, VTT, 02044, Finland

SO Applied Microbiology and Biotechnology (2002), 58(6), 721-727
CODEN: AMBIDG; ISSN: 0175-7598

PB Springer-Verlag

DT Journal

LA English

RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT